Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-07-05** **Date: 09/02/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.

Agency : Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/63/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-02-18

Sample ID No : 2018-02-07-05 /01

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	02/02/2018	09/02/2018	149.85 X 150.44 X 150.40	22543	8.215	390.0	17.3	17.6
2	Footing Concrete	M20	02/02/2018	09/02/2018	149.86 X 150.47 X 150.48	22549	8.162	410.4	18.2	
3	Footing Concrete	M20	02/02/2018	09/02/2018	151.22 X 150.47 X 150.69	22754	8.163	395.9	17.4	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE (WF)

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-07-05** **Date: 02/03/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.

Agency : Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/63/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-02-18

Sample ID No : 2018-02-07-05 /02

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	02/02/2018	02/03/2018	149.66 X 151.24 X 150.44	22635	8.120	522.9	23.1	22.8
2	Footing Concrete	M20	02/02/2018	02/03/2018	150.38 X 150.47 X 150.33	22628	8.201	513.6	22.7	
3	Footing Concrete	M20	02/02/2018	02/03/2018	150.47 X 150.98 X 149.86	22718	8.198	511.2	22.5	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-10-08** **Date: 13/02/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.

Agency : Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/63/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-18

Sample ID No : 2018-02-10-08 /01

Customer ID : Plinth Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Concrete	M20	06/02/2018	13/02/2018	150.11 X 150.32 X 150.54	22565	8.138	374.6	16.6	16.9
2	Plinth Concrete	M20	06/02/2018	13/02/2018	150.22 X 150.76 X 150.11	22647	8.230	391.8	17.3	
3	Plinth Concrete	M20	06/02/2018	13/02/2018	150.13 X 150.21 X 150.44	22551	8.330	381.1	16.9	

Note:

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Bangalore - 560 092

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-10-08** **Date: 06/03/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.

Agency : Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/63/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-18

Sample ID No : 2018-02-10-08 /02

Customer ID : Plinth Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Concrete	M20	06/02/2018	06/03/2018	148.47 X 150.23 X 151.28	22305	8.174	517.5	23.2	23.1
2	Plinth Concrete	M20	06/02/2018	06/03/2018	150.38 X 151.22 X 149.58	22740	8.213	529.9	23.3	
3	Plinth Concrete	M20	06/02/2018	06/03/2018	150.22 X 149.88 X 150.63	22515	8.261	515.6	22.9	

Note:

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-30-09** **Date: 31-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.
Agency	:	Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/63/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-18
Sample ID No	:	2018-01-30-09/01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	30-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	568	685	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.582	592	701	18.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-29-13** **Date: 31-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.
Agency	:	Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/63/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-01-18
Sample ID No	:	2018-01-29-13 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	185	185	1.2	98.8	90-100
3	20 mm	7425	7610	50.7	49.3	30-70
4	10 mm	4241	11851	79.0	21.0	10-35
5	4.75 mm	2714	14565	97.1	2.9	0-5
6	Pan	435	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-29-13** **Date: 31-01-18**

Sample ID No : 2018-01-29-13 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

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Applly N.D
AE(NR)

Assistant Engineer
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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-29-13** **Date: 31-01-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.

Agency : Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/63/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-18

Sample ID No : 2018-01-29-13 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 29-01-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	145	177	17.7	82.3	60-95	75-100	85-100	95-100
4	1.18 mm	221	398	39.8	60.2	30-70	55-90	75-100	90-100
5	600 micron	201	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	245	844	84.4	15.6	5-20	8-30	12-40	15-50
7	150 micron	115	959	95.9	4.1	0-10	0-10	0-10	0-15
8	Pan	41	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE(WT)

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-29-13**

Date: 31-01-18

Sample ID No : 2018-01-29-13 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	3.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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AE(II)

Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-29-13** **Date: 31-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.
Agency	:	Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.
Customer Reference	:	BBMP/EE/BTP/WO/63/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-18
Sample ID No	:	2018-01-29-13 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	363	363	7.3	92.7	90-100
3	10 mm	2113	2476	49.5	50.5	25-55
4	4.75 mm	2245	4721	94.4	5.6	0-10
5	Pan	279	5000	100	0	–

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AE(W2)

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-29-13** **Date: 31-01-18**

Sample ID No : 2018-01-29-13 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**9.9**	
3	Specific Gravity	**2.65**	–
4	Bulk Density(Loose) (Kg/l)	**1.50**	–
5	Bulk Density(Compacted) (Kg/l)	**1.54**	–
6	Water Absorption(%)	**0.19**	–
7	Aggregate crushing Value(%)	**24.7**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.3**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Abhilash N.D
AE(Mtrl)

Assistant Executive Engineer
Kodigehalli Sub Division
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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-19-02** **Date: 22/02/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.

Agency : Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/63/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-18

Sample ID No : 2018-02-19-02 /01

Customer ID : Beam And Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And Roof Concrete	M20	15/02/2018	22/02/2018	148.65 X 150.44 X 150.48	22363	8.154	384.6	17.2	17.5
2	Beam And Roof Concrete	M20	15/02/2018	22/02/2018	150.44 X 149.75 X 150.63	22528	8.163	385.2	17.1	
3	Beam And Roof Concrete	M20	15/02/2018	22/02/2018	150.11 X 150.42 X 150.77	22580	8.145	410.9	18.2	

Note:

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AE(HQ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-19-02** **Date: 15/03/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.

Agency : Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/63/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-18

Sample ID No : 2018-02-19-02 /02

Customer ID : Beam And Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And Roof Concrete	M20	15/02/2018	15/03/2018	151.32 X 150.47 X 150.66	22769	8.215	535.1	23.5	22.9
2	Beam And Roof Concrete	M20	15/02/2018	15/03/2018	150.47 X 150.22 X 150.97	22604	8.204	506.3	22.4	
3	Beam And Roof Concrete	M20	15/02/2018	15/03/2018	150.34 X 151.72 X 150.49	22810	8.199	520.1	22.8	

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Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-29-13** **Date: 31-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.
Agency	:	Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/63/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-18
Sample ID No	:	2018-01-29-13 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-01-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.14	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(HQ)

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-29-13** **Date: 26-02-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.
Agency	:	Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/63/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-18
Sample ID No	:	2018-01-29-13 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-01-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:
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Asst. Engg. N.D
AE(Ad)

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

****End of Report****

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-02-02-09** **Date: 05-02-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Bangalore One center building in Coffeboard Layout ward No.07 Byatarayanapura.
Agency	:	Sri. K. Shankarreddy, #48/2, Kaverinagara, Kavalbairasandra, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/63/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-18
Sample ID No	:	2018-02-02-09/01
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	02-02-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	201	202	16241	34.250	2108.9	2128.1	Not less than 1800Kg/m^3
2	401	203	201	16362	34.520	2109.8		
3	400	200	200	16000	34.650	2165.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.830	34.060	5.20	5.18	Shall not be more than 10% by mass
2	36.270	34.530	5.04		
3	36.480	34.640	5.31		

AE(HQ)

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Director
Kent
Bangalore - 560 092

Lab ID : **CP-2018-02-02-09** **Date: 05-02-18**

Sample ID No : **2018-02-02-09/01**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	202	
3	400	202	200	
4	402	202	201	
5	401	203	202	
6	400	200	200	
7	401	201	201	
8	402	201	202	
9	400	202	200	
10	401	201	201	
11	401	200	201	
12	401	200	200	
13	402	201	202	
14	401	201	203	
15	401	202	203	
16	402	200	201	
17	400	202	202	
18	403	203	201	
19	401	201	203	
20	401	200	201	
Average of 20	**401**	**201**	**201**	

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Lab ID : **CP-2018-02-02-09** **Date: 05-02-18**

Sample ID No : 2018-02-02-09/01

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	200	80200	325.8	4.1	4.0
2	401	201	80601	305.3	3.8	
3	400	202	80800	315.8	3.9	
4	402	202	81204	328.3	4.0	
5	401	203	81403	322.1	4.0	
6	400	200	80000	317.9	4.0	
7	401	201	80601	316.4	3.9	
8	402	201	80802	324.8	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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Assistant ... Kodigehalli ... Bruhat Bangalore Mahanagara Palike

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